

# Road To CDR Paul Palmer

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### Incremental Design Review October/November 1995



- Review board recommendation: Proceed to detailed design
- Review board recorded 8 primary concerns
  - 4 ECS
  - 4 Project
  - All closed
- 44 RIDs
  - 9 Priority 1
  - 35 Priority 2
  - All closed

## IDR Board Concerns Issues Assigned to ECS



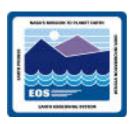
- 2 Provide end-to-end model of system performance Closed
  - Workshops held January and February 96
  - Final results incorporated into Detailed Design Review
- 3 Review detailed operations and interface design Closed
  - Two GUI Workshops held with DAAC participation
  - Third workshop scheduled 1 2 May 96
  - Highly successful results with first two sessions
- 7 Analyze use of common infrastructure services Closed
  - Review held 5 6 Feb 96
  - Results presented during CSS Detailed Design Review
- 8 Schedule Design Review of Incremental Track Closed
  - Incremental Track Detailed Design Review scheduled 17 18 Sep 96

## IDR Board Concerns Issues Assigned to Project



- 1 Project Policy Issues Closed
  - Technical Direction given to ECS
- 4 Project to complete EOSDIS Security Plan Closed
  - Technical Direction given to ECS
- 5 Provide Design Pull Statistics To Validate 2X Sizing Closed
  - Validated by AHWGC with ECS Science Office support
- 6 Produce Plan for Use of Marginal Capacity Closed
  - Validated by AHWGC with ECS Science Office support

#### **Detailed Design Phase Activities**



- Extensive interaction with stakeholders
  - OPS Workshop
  - Modeling Workshops
  - Infrastructure Review
  - External Data Provider Workshop
  - Production Rules Tele-Workshop
- Design Issue Teams
  - Cross Release Resolution
  - Cross Subsystem Resolution
- Learning/Building upon Release A
- Leveraging outreach activities
  - HDF-EOS (University of Illinois)
  - Checkpointed FTP (University of Colorado)

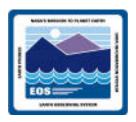
## Operations Workshop 17-19 January 1996



#### **Accomplishments**

- Most DAACs represented
- DID 605 delivered 4/1/96 with updated workflows
- Very successful interaction between DAACs and ECS. ~ 100 questions and issues raised and addressed
- Resulting design changes addressed at CDR Detailed Design Reviews and ECS Operations session

## Prototype Workshop 2 January 96



#### **Accomplishments**

- Four User interface prototypes presented
  - ESST, V0 WWW IMS, JEST, UMCP Dynamic Query Prototype
- JEST step toward demonstrating Java possibilities
- Comments from PW1 incorporated in ESST and V0 WWW IMS
- Web work shows good direction, but do not let X/Motif suffer
- PW2 comments included in EP 7 objectives
  - Client design modifications based on comments
  - Evolve web client/Java ESST
  - Continue X/Motif track (Release B Baseline)

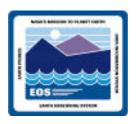
### Infrastructure Implementation Feasibility Review 5-6 Feb 96



#### **Accomplishments**

- Overall approach to resource analysis validated
- Results included in end-to-end performance model
- Detailed design improved by incorporating recommended changes (Reviewed during CDR Detailed Design Reviews)

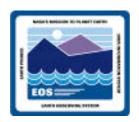
### End-to-End Modeling Workshops 25 Jan 96 and 21 Feb 96



#### **Accomplishments**

- Developed end-to-end model of system performance
- Applied to most processing
  - Push
  - Pull
  - Distribution
- Modeled hardware (processors, LANS, disk throughput)
- Discussed in Modeling/Sizing presentation (19 April 96)

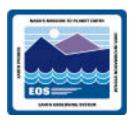
### DAS Design Review 11 April 96



#### **Accomplishments**

- Demonstrated design for DAS integration with ECS
- Presented results of performance/implementation trade studies and recommended solutions
- Agreed to deferred deployment plan for DAS
  - Hardware procurement review May 97
  - Plan for interim milestone reviews
    - Jul '96, Oct '96, Jan '97
- No RIDS received
  - Few actions
  - Substantial positive feedback

### **Other Workshops**



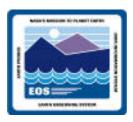
- Production Rules Tele-Workshop
  - Eight rules developed with instrument teams
  - Results incorporated in Production Rules White Paper
- External Data Provider Workshop
  - Reviewed options with ESDIS and providers for EDP interoperability within Release B timeframe
  - Results contained in EDP White Paper
  - Summary in External Data Provider presentation (24 Apr 96)

#### **Release B Documentation**



- All documents available on ECS Data Handling System (EDHS)
  - http://edhs1.gsfc.nasa.gov
- Total of 47 CDRLs
  - 20 Design Documents
  - 11 ICDS
  - 2 Ops Concept Documents
  - 14 other contractual documents

### Summary



- All IDR Review Board concerns addressed by ECS and Project
- All RIDS closed
- Extensive interaction with all stakeholders through reviews and workshops

Release B ready for implementation